DOCUMENT I INHIBITION OF HIV AND HOV TRANSCRIPTION BY METHYLATED NOGA

WORK WAS ACCOMPLISHED
IN THE FIRST G MONTHS
OF 1996 IN ROOM 249
LEVI BUILDING, TOHNS
HODKINS UNIVERSITY,
INVENTORS LAB.

```
3itmap Display Range: 0-63 counts, li
    Lanes
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Background Subtraction: regions
L1L2L3L4L5L6L7L8L&1L1L1L1L1A T1
       Dist Type
                          Gross
ID
                         Counts
        (mm)
           Bkgd subtr =12.62/sqmm
Lane #1
        42.5 Bkgd
                            757
        53.0 Unkn
                          3,631
            Bkgd subtr =19.38/sqmm
Lane #2
        42.5 Bkgd
                          1,163
2
1
        53.0 Unkn
                          3,464
            Bkgd subtr =16.07/sqmm
Lane #3
                            964
        42.5 Bkgd
                          2,832
        53.0 Unkn
            Bkgd subtr =12.20/sqmm
Lane #4
2
        42.5 Bkgd
                            732
                          1,936
1
        53.0 Unkn
            Bkgd subtr =6.13/sqmm
Lane #5
        42.5 Bkqd
                                                       267
                             635
                                          368
        53.0 Unkn
            Bkgd subtr =17.23/sqmm
 Lane #6
                          1,034
        42.0 Bkgd
                                                    2,541 //0 -
                                        1,034
        53.0 Unkn
                          3,575
            Bkgd subtr =11.30/sqmm
 Lane #7
                             678
        42.5 Bkgd
                                                     1,086
                                          678
                          1,764
        53.0 Unkn
            Bkgd subtr =8.08/sqmm
 Lane #8
                             485
        42.5 Bkqd
                                                       336
                                          485
        53.0 Unkn
                             821
 Lane #9
            Bkgd subtr =16.23/sqmm
                             974
        42.5 Bkgd
                                                     2,038
                                          974
                           3,012
        53.0 Unkn
             Bkgd subtr =10.90/sqmm
 Lane #10
         42.5 Bkgd
                             654
                                          654
                                                     1,026
         53.0 Unkn
                           1,680
 Lane #11
              Bkgd subtr =8.38/sqmm
 2
         42.5 Bkqd
                             503
```

File: 012696. IMG Acquired: 1/29/96 11

Page 1

738

503

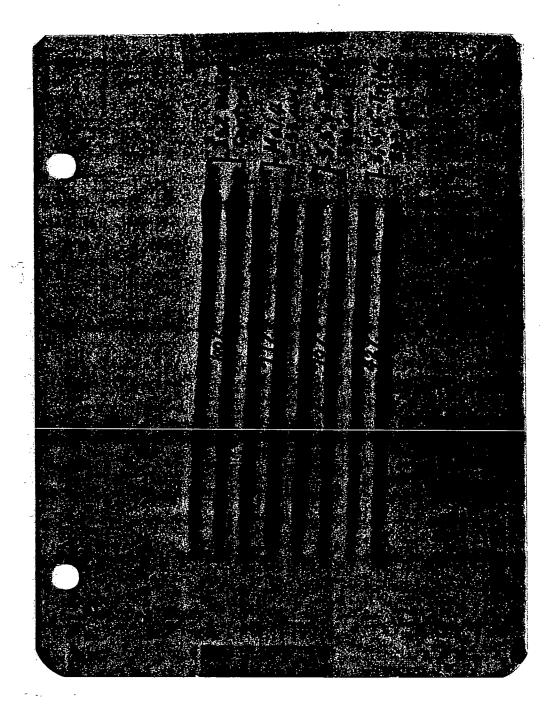
1,241

52.5 Unkn

42.5 Bkgd 503 52.5 Unkn 1,241	42.5 Bkgd 500t -10.50, 42.5 Bkgd 1,680 53.0 Unkn 1,680	42.5 Bkgd 974 53.0 Unkn 3,012	42.5 Bkgd 485 53.0 Unkn 821	42.5 Bkgd subtr =1.53.0 Unkn 1	42.0 Bkgd 1,034 53.0 Unkn 3,575	42.5 Bkgd 53.0 Unkn	42.5 Bkgd 732 53.0 Unkn 1,936 #5 Bkgd subtr =6.13/s	42.5 Bkgd 53.0 Unkn #4 Bkgd subtr =1	1,163 1,163 1,3,464 1,163	#1 Bkgd subtr =12.62/ 42.5 Bkgd 757 53.0 Unkn 3,631	Dist Type
503	654	974	485	678	1,034	368	732	964	1,163	757	Bkgd Subtr
738	1,026	2,038	336	1,086	2,541	267	1,204	1,868	2,301	2,874	Net Total
	CA ST				110 /	- <del>-</del>	\$ 1	<u>4</u>	1007	124 %	(1) C
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**************************************					( B) O ( A)	2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	1 the state of	100deg			
4.											

Page 1

Lane	#i2	Bkgd	subtr	=15.18/sqmm				
2	A2.5	Bkgd		911				
1	52.5	Unkn		3,114	911	2,203	` <i>i</i> ·	_
Lane	#13	Bkgd	subtr	=11.92/sqmm				
2	42.5	Bkgd		715				e de ser
1	52.5	Unkn		2,438	715	1,723	·	<u>:</u>
Lane	#14	Bkgd	subtr	=6.07/sqmm				:
2	42.5	Bkgd		364				
1	52.0	Unkn		930	364	566	ン・元	$=\overline{T}_{i,j}$

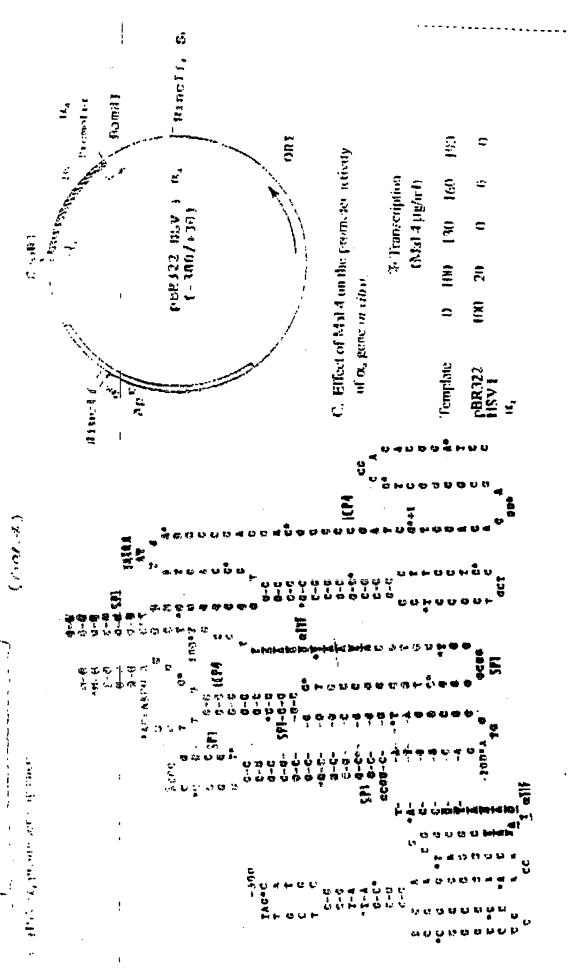


2-25-56 Test of HSV- PBR 322 \ 380 turplate inhibition by Mal 4 Will use 300 nanogrus template in 12.8 % Will do Marley it 60% conz. at 160,190 and 220 by Ind Mal 4.

1. 01150 control . 47 2. Mil 4 160

Dissalve ONA in 9.6 d Has. Ald. 9 d Mal 4 deletims and in on bete 15 min of 30°. For 65% Marly need 4.5 d extract + 3 d Duffer.

It wain so/ extract. fooled /2 Ex. + the 160,190,220 Hd4.



B Templife of HSV L. e.,

(Ret 32, Mackein, S. & Rozzitan, B.

95 17 20

17:91

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### DOCUMENT I

A. DESIGN AND INSTRUCTION

FROM DR. RUCHIH C. HUAWG,

INVENTOR, TO DR. H. S. CHEN

FOR CARRYING OUT EXPERIMENTS

LISING TETRAHETHYL NOGA

TO INHIBIT HOU IN VERO CELLS

AND TOXICITY STUDIES OF THE

DRUG IN MICE

LETTER DATED IN MAY 21 AND WAY 24, 1996

B. RESULTS RECEIVED BY DR. HUANG 6/25/96

P.1 (4)

# JOHNS HOPKINS

### Department of Biology

144 Wiss run - 3452 N. Charles Engli Burniam IAC 21212-3425 A.O. 515-738C - FAX. (110) 510 5513

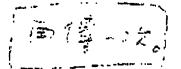
> 1) P. CHEN HONGSHAR NDGA FOX 516.746-6618 2mg/50NDM96. 79803-79

# :一島34的音文中質

### Department of Biology

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124 M Lock Hall (\$450 H) Energy Syneet Bath 1 Ste Mid 11210-17835 (416) \$16-1780 (\$440) \$10-6210



MR. CHEN HONESHAM Fax 516-746-665

三当洲的家庭村等

SO FED EXPLOSES FLA TETOM ME THE NOCA 25004 3 - +5 0050 3 155 INGTRITION OF HISU-/ 南大海島衛,幸養 DOSE: 2 mg/some is to windrecution; 污 到四一二个,共产也没有一个法。 1/± シネタナランしるい。是こし、エロデに安す。 100% DMSO 型部1450-16年成一考的主题企图 已决定,又如何查看被要高的继续 E TETRA METHON ROOM & FORTHOLDER 二次 (20) & TRANSCREPTION, OF FIRE. まて 1450-1 Replaced 17500 1918 to 0.05 0.2 是好管理不動物。 图李鉴(见化学经验及企业中外5000000

Epris. 2 5A Rilas)

TETRA - wether NOGA

2 mg

# 1996的对给考周上意

C-4N DOC

Table 1. Cytotoxicity and inhibition of HSV-1 CPE by 4N in vero cell cultures

1996, 6-20-25

	Conc.	Cytotoxicity(OD570)	inhibition of cell	TCS0	HSV-1 CPE (OD570)	Infabition of	1C50
YOME	[m/30	X ± 80	growth %	ug/mi	X ± 50	HSV-1CFE %	क्ष्म्भ्यो
4-N	1000.00	0.03, 0.03, 0.03, 0.02	97.05	83	0.04, 0.05, 0.00, 0.00		<0.98
	<del> </del>	0.03 ± 0.01			0.02± 0.03		4.50
	500.00	0.03, 0.04, 0.05, 0.04	96.08		0.05, 0.11, 0.07, 0.04	•	
	<del> </del>	0.04± 0.01			0.07± 0.03		
	250.00	0.30, 0.30, 0.30, 0.30	70.59		0.30, 0.26, 0.22, 0.28		
	<del> </del>	0.3± 0			0.27± 0.03		
	125.00	0.34, 0.38, 036, 0.39	63.73		0.57, 0.45, 0.62, 0.60	31.5	
	-	0.37± 0.02			0.5 <del>6±</del> 0.08		
•	62.50	0.45, 0.46, 0.45, 0.45	55.88		0.52, 0.49, 0.68, 0.66	34.8	
	ļ	. 0.45± 0.01			0.59± 0.10		
	31.30	0.81, 0.80, 0.86, 0.85	18.63		0.90, 0.84, 0.79, 0.87	- 64	
_	ļ	0.83± 0.03			0.85± 0.05		
	15.60	1.08, 1.02, 1.00, 0.98	0		0.72, 0.92, 0.68, 0.92	59.6	
	<del> </del>	1.02± 0.04			0.81± 0.13	33.13	
	7.80	1.25, 1.04, 1.00, 1.11	-0.08		0.74, 0.79, 0.96, 1.03	67.4	
		1.10± 0.11			0.88± 0.14		
	3.90	1.10, 1.08, 1.06, 1.08	-0.06		0.79, 1.07, 0.83, 0.76	65.2	
		1.08± 0.02			0.86± 0.14		
	1.95	1.10, 1.20, 1.22, 1.00	· <b>-0.08</b>		0.78, 0.85, 0.81, 0.76	58.4	
		1.10± 0.1			0.80± 0.04		
	0.98	1.30, 1.25, 1.15, 1.15	-0.18		0.83, 0.73, 0.80, 0.83	58.4	<del></del>
		1.20± 0.08			0.80± 0.05		
.	CC.	1.02, 1.03, 1.00, 1.04	. ]	I	1.13, 1.22, 1.18, 1.15		
		1.02± 0.02	•		1.17± 0.04	Í	
	VC		ľ	- ]	0.24, 0.29, 0.31, 0.26		
	X± SD				0.28± 0.03		

Table 2. Inhibition of HSV-1 CPE by ACV on vero cell

	1996, 6, 20-25.						
Agen	conc.	HSV-1 CPE(OD570)	inhibition %	IC50			
<u> </u>	trp/ml			ug/ml			
ACV	1000	0.70,0.53,0.57,0.62	37	<0.98			
<u> </u>	X± SD	0.61± 0.07	]	<b>~0.96</b>			
ĺ	500	0.63,0.38,0.62,0.49	28.1				
	X± SD	0.53± 0.12					
	250	0.50,0.49,0.64,0.87	39.3				
	Xt SD	0.63± 0.18	ت ود				
	125	0.41,0.43,0.53,0.66	25.8				
	X± SD	0.51± 0.11	ا هدد				
	62.5	0.73,0.72,0.73,0.76	51.7				
	X± SD	0.74± 0.02	31.7				
	31.3	0.93,0.90,0.86,0.93	70.8				
	X± SD	0.91± 0.03	/0.6	1			
	15.6	1.00,0.99,0.98,1.02	80,9				
	X± SD	.1.00± 0.02	80,9	İ			
	7.8	1.09,1.11,1.16,1.10	94.4				
	X± SD	1.12± 0.03	7.4	1			
j	3.9	1.13,1.07,1.10,1.09	92.1				
	X± SD	1.10± 0.03	32.1	l			
	1.95	1.14,1.12,1.17,1.11	96.6				
	X± SD	1.14± 0.03	50.0	-			
1	0.98	0.76,0.80,0.82,0.92	61.8				
	X+ SD	0.83± 0.07	01.6				
	œ	1.13,1.22,1.18,1.15					
	X± SD	1.17± 0.04		İ			
1	VC	0.24,0.29,0.31,0.26					
	X± SD	0.28± 0.03	Ì				

## 医药生物技术研究所

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i	3639/->		83.119 fm1
11	7,000 X±59	0.03±0.0/	F
-	700	0.03 0.04 0.05 0.04 96.08	
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,		0.3 0.3 0.3 70.59	
.		0,3 ± 0	
.,	12/5	0.34 0.38 0.36 0.39 63.73	
	doorer 1947 1-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	03720,02	
		14. 12. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	
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	31.3	0.8/0.80 0.80 0.85 18.63	
		0.83 ± 0.03	
			CC 1.02 1.03 1.
į	0		1.02 ± 0.02
in			
11 2 1	<u></u>	1.75 1.04 1.00 1.11 -0.08	
		Lilt 9.11	yt o o
	3.7	7.10 1.08 1.06 1.08 -0.06	
,	7,55	1.10 1.70 1.72- 1.00 -0.08	
19.5 al gr	/ 1 <b>/ -</b>		
i  -	0,98	1.30 1.25 1.15 1.15 -0.18	<del>                                     </del>
ļia · ·	L605	1,2 ± 0.08	

# 医药生物技术研究所

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media)	31-3 0.92 084 0.79 087 64,00
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i, i	7.8 0.74 0.79 0.96 1.03 67.4
	6.88 ± 0.14
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in the second	0.86±0.14
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